IN THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

1-6. (Canceled)

- 7. (Previously Presented) An integrated device comprising:
- (a) a case;
- (b) a pad;
 - (i) disposed within the case and,
- (ii) capable of receiving and transporting a biological sample containing an analyte;
 - (c) a detector:
 - (i) in fluid communication with the pad (b);
 - (ii) disposed within the case (a); and
- (iii) adapted for at least one of detecting the presence and quantitating the concentration of analyte in the sample;
- (iv) said detector being capable of being in contact with a display for illustrating results of the detector; and
 - (d) a strap or adhesive tape for holding the pad to an area of skin surface, wherein:
- (e) the case (a) includes at least one opening suitable to allow the biological sample containing analyte to contact the pad (b).

- 8. (Previously Presented) The integrated device of claim 7 wherein the pad (b) contains a surfactant to facilitate transport of the biological sample containing analyte across the pad (b).
 - 9-31. (Cancelled)
- 32. (Currently Amended) The integrated fluid harvesting and analysis device of claim 64, and further comprising a sealed electrical connection to at least one of the sensor (c) and a probe via the final first means.
 - 33-50. (Cancelled)
- 51. (Previously Presented) A method for harvesting interstitial fluid from tissue and analyzing the interstitial fluid, said method comprising the steps of:
- (a) porating a selected area of skin to form an opening for extracting a sample comprising interstitial fluid, which sample is suitable for quantitating an analyte;
- (b) collecting the sample from the opening, wherein:
 - (c) step (b) is enhanced by applying a vacuum to the selected area of the skin;
 - (d) the sample is collected in an article comprising:
 - (i) a pad capable of receiving the sample and
 - (ii) a strap or adhesive tape for holding the pad to the selected area of skin,
 - (e) the article contains an opening suitable to allow the sample to contact the pad; and
 - (f) determining the amount of analyte within the sample.
 - 52-54. (Canceled)
- 55. (Previously Presented) An apparatus for obtaining biological fluid for diagnostic testing, said apparatus comprising:
- (a) a device for forming an opening in an area of skin suitable for extracting a sample comprising interstitial fluid;



- (b) a vacuum device for introducing a vacuum onto the area of skin so as to enhance interstitial fluid flow from the skin;
- (c) wherein the vacuum device is capable of controlling the pressure level and/or timing of the vacuum.
- 56. (Previously Presented) The apparatus according to claim 55 wherein the vacuum device is capable of maintaining the vacuum at a desired pressure level.
- 57. (Previously Presented) An apparatus for obtaining biological fluid for diagnostic testing, said apparatus comprising:
- (a) a first device for forming an opening in an area of skin suitable for extracting a sample of biological fluid;
- (b) a second device for introducing a positive pressure to the area of skin to assist in the fluid flow from the opening,

wherein:

- (c) the second device is capable of controlling the timing and/or the amount of pressure on the area of skin.
 - 58. (Currently Amended) The apparatus according to claim 57:
- [[(a)]] further comprising (d) a vacuum device for introducing a vacuum onto the area of skin so as to enhance fluid flow from the opening;

[[(b)]] wherein:



- (e) the second device is capable of controlling the pressure level and/or timing of the vacuum.
- 59. (Previously Presented) The apparatus of claim 57 wherein the sample comprises blood.
- 60. (Previously Presented) The apparatus of claim 57 wherein the sample comprises interstitial fluid.

- 61 and 62. (Canceled)
- 63. (Previously Presented) An integrated fluid harvesting and analysis device, comprising:
 - (a) a first layer;
 - (b) a porating element:
 - (i) disposed on the first layer (a);
 - (ii) adapted for forming at least one opening in tissue;
 - (c) a sensor:
- (i) positioned in fluid communication with the at least one opening in the tissue;
- (ii) responsive to a biological fluid collected from the tissue to provide an indication of a characteristic of the biological fluid; and
 - (d) a mechanical element:
 - (i) having a small opening therein;
- (ii) capable of receiving the first layer (a) and the sensor (c) such that the porating element (b) is aligned with the small opening; and
- (iii) responsive to downward force thereon to cause the surface of the tissue to bulge into the small opening.
- 64. (Previously Presented) An integrated fluid harvesting and analysis device, comprising:
 - (a) a first layer;
 - (b) a porating element:
 - (i) for forming at least one opening in tissue;
 - (ii) disposed on the first layer (a);
 - (c) a sensor:



- (i) positioned in fluid communication with the at least one opening in the tissue;
- (ii) responsive to a biological fluid collected from the tissue to provide an indication of a characteristic of the biological fluid;
- (d) first means for pneumatically sealing the first layer (a) and the sensor (c) to the surface of the tissue and forming a sealed chamber; and
- (e) second means coupled to the first means d) for supplying negative pressure to the sealed chamber.

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